Please replace the paragraph beginning at Page 23, line 1, with the following rewritten paragraph:

--WHAT IS CLAIMED IS:--

IN THE CLAIMS

Please cancel claims 1-7 and 30-36 without prejudice.

Please amend the Claims as follows:

10. (Amended) The method according to Claim 8 wherein an appropriate assay includes proliferation assay, cytotoxic assays, cellular reactivity or combinations thereof.

19. (Amended) A composition comprising a peptide or chemical equivalent thereof comprising the formula:

$$X_1X_2X_3$$

wherein:

X_1 and X_3 may be the same or different and each is an amino acid sequence comprising from 0 to 40 naturally or non-naturally occurring amino acid residues; X_2 is any amino acid sequence of from 10 to 100 residues derived from, homologous to or contiguous within amino acids 506 to 518 inclusive or derivatives thereof of human GAD 65 or amino acids 24 to 36 inclusive or derivatives thereof of human proinsulin; and wherein said peptide molecule is capable of reacting with T cells and modifying T-cell function when incubated with cells from subjects having pre-clinical or clinical Insulin-Dependent Diabetes Mellitus (IDDM) to assay reactivity of a subject to IDDM autoantigen by contacting said peptide or its chemical equivalent to cells from said subject and determining reactivity by an appropriate assay.

20. (Amended) The composition according to claim 19 wherein the cells are selected from the group comprising PBMCs, anti-coagulated whole blood or tissue biopsy cells.

21. (Amended) The composition according to claim 19 wherein an appropriate assay includes proliferation assay, cytotoxic assays, cellular reactivity or combinations thereof.

22. (Amended) The composition according to claim 19 wherein X_2 comprises from 10 to 50 amino acid residues.

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23. (Amended) The composition according to claim 22 wherein X_2 comprises from 10 to 30 amino acid residues.

24. (Amended) The composition according to claim 23 wherein X_2 comprises from 10 to 15 amino acid residues.

25. (Amended) The composition according to claim 24 wherein X_2 comprises the amino acid sequence: FFYTPKTRREAED.

26. (Amended) The composition according to claim 24 wherein X_2 comprises the amino acid sequence: FWYIPPSLRTLED.

27. (Amended) A composition comprising a peptide of chemical equivalent thereof comprising the formula:

$$X_1X_2X_3$$

wherein:

X_1 and X_3 may be the same or different and each is an amino acid sequence comprising from 0 to 15 naturally or non-naturally occurring amino acid residues; X_2 is selected from FFYTPKTRREAED and FWYIPPSLRTLED or a derivative or chemical equivalent thereof and wherein said peptide is capable of reacting with T cells and modifying T-cell function when incubated with cells from subjects with pre-clinical or clinical IDDM to assay reactivity of a subject to IDDM autoantigen by contacting said peptide or its chemical equivalent with cells from said subject and determining reactivity by a proliferation assay.

28. (Amended) The composition according to claim 27 wherein the cells are selected from the group comprising PBMCs, anti-coagulated whole blood or tissue biopsy cells.

29. (Amended) The composition according to claim 27 wherein an appropriate assay includes proliferation assay, cytotoxic assays, cellular reactivity or combinations thereof.

Please add the following new claims:

37. The method according to claim 8 wherein X_2 consists of an amino acid sequence comprising SEQ ID NO:1.

38. The method according to claim 8 wherein X_2 consists of an amino acid sequence comprising SEQ ID NO:2.

39. The composition according to claim 19 wherein X_2 consists of an amino acid sequence comprising SEQ ID NO:1.

40. The composition according to Claim 19 wherein X_2 consists of an amino acid sequence comprising SEQ ID NO:2.

REMARKS

The present application is a divisional application of U.S. Serial No. 08/663,272 (the "272 application") filed on November 25, 1996. Applicants have amended the specification to include the sequence listing submitted on September 3, 1997 in the parent case (the '272 application). The specification has also been amended to identify sequences by sequence identification reference numbers. Other minor corrections have been made. No new matter is included in this submission.